
JO DAVIESS
STEPHENSON
WINNEBAGO
BOONE
MC HENRY
LAKE
CARROLL
OGLE
DE KALB
KANE
COOK
WHITESIDE
LEE
DU PAGE
WILL
LA SALLE
BUREAU
KENDALL
GRUNDY
ROCK ISLAND
MERCER
HENRY
PUTNAM
KANKAKEE
KNOX
STARK
MARSHALL
LIVINGSTON
WARREN
PEORIA
IROQUOIS
WOODFORD
HENDERSON
MC LEAN
FULTON
HANCOCK
MC DONOUGH
FORD
TAZEWELL
VERMILION
MASON
CHAMPAIGN
SCHUYLER
LOGAN
DEWITT
ADAMS
BROWN
CASS
MENARD
PIATT
MACON
PIKE
MORGAN
DOUGLAS
EDGAR
SCOTT
MOULTRIE
CHRISTIAN
SHELBY
COLES
SANGAMON
GREENE
MACOUPIN
CLARK
CUMBERLAND
MONTGOMERY
CALHOUN
FAYETTE
EFFINGHAM
JASPER
CRAWFORD
JERSEY
69
MADISON
BOND
RICHLAND
LAWRENCE
MARION
CLINTON
CLAY
WAYNE
EDWARDS
WABASH
JEFFERSON
WASHINGTON
MONROE
ST. CLAIR
HAMILTON
WHITE
RANDOLPH
PERRY
FRANKLIN
JACKSON
SALINE
GALLATIN
WILLIAMSON
UNION
JOHNSON
POPE
HARDIN
ALEXANDER
PULASKI
MASSAC

EDGEWOOD **ISGS #69A**
POTENTIAL WETLAND COMPENSATION SITE
FAP 328
Effingham County, near Edgewood, Illinois
Primary Project Manager: Gregory A. Shofner
Secondary Project Manager: Keith W. Carr

SITE HISTORY

- August 2002: ISGS submitted an Initial Site Evaluation Report to IDOT.
- September 2002: IDOT issued a task order for a Level II hydrogeologic characterization of the site.
- March–April 2003: ISGS data collection was initiated with the installation of monitoring wells, stage gauges, and data loggers.
- December 2003: Monitoring well array was expanded with the installation of additional shallow monitoring wells 9S, 10S, 11S, and 12S.
- March 2004: A topographic survey of the site was performed, along with determination of well and instrument locations using the GPS.

WETLAND HYDROLOGY CALCULATION FOR 2004

We estimate that 0.01 acres (0.00 ha) of the total site area of 12.8 acres (5.2 ha) satisfied wetland hydrology criteria for greater than 5% of the growing season in 2004. The same area of 0.01 acres also satisfied wetland hydrology criteria for greater than 12.5% of the growing season. These estimates are based on the following factors.

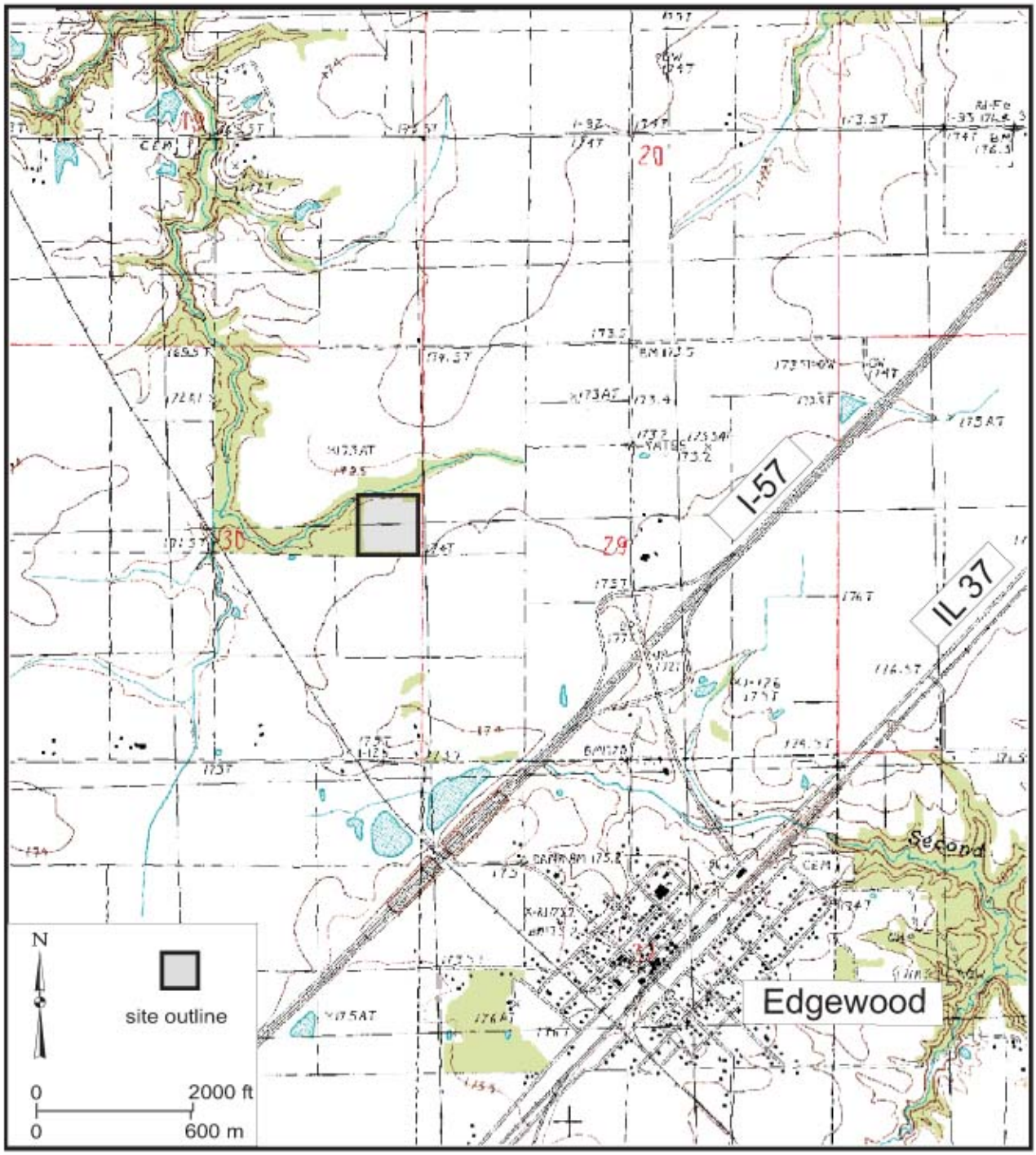
- According to the Midwestern Climate Center, the median date that the growing season begins in nearby Vandalia, Illinois is April 4 and the season lasts 211 days; 12.5% of the growing season is 26 days.
- At the Vandalia weather station, total precipitation from September 2003 through August 2004 was 127% of normal. Although total precipitation exceeded normal for the year, the early growing season was drier than last year. This was primarily due to dry conditions in February, April, and June.
- Well 2VS satisfied wetland hydrology criteria of the 1987 U.S. Army Corps of Engineers Wetland Delineation Manual for greater than 5% of the growing season. Well 2VS also satisfied wetland hydrology criteria for greater than 12.5% of the growing season. No other wells satisfied wetland hydrology criteria.
- Crest-gauge data (CG 1) show that the unnamed tributary of Limestone Creek attained a maximum stage of 141.79 m (465.19 ft), which was insufficient to provide water to the site in 2004.
- Wetland hydrology acreage was calculated based on an ISGS topographic survey that was rectified both to GPS data, and to point locations visible on a digital orthophotograph.

PLANNED FUTURE ACTIVITIES

- A Level II hydrogeological characterization report is in preparation.
- Monitoring will continue until no longer required by IDOT.

Edgewood Potential Wetland Compensation Site
(FAP 328)
General Study Area and Vicinity

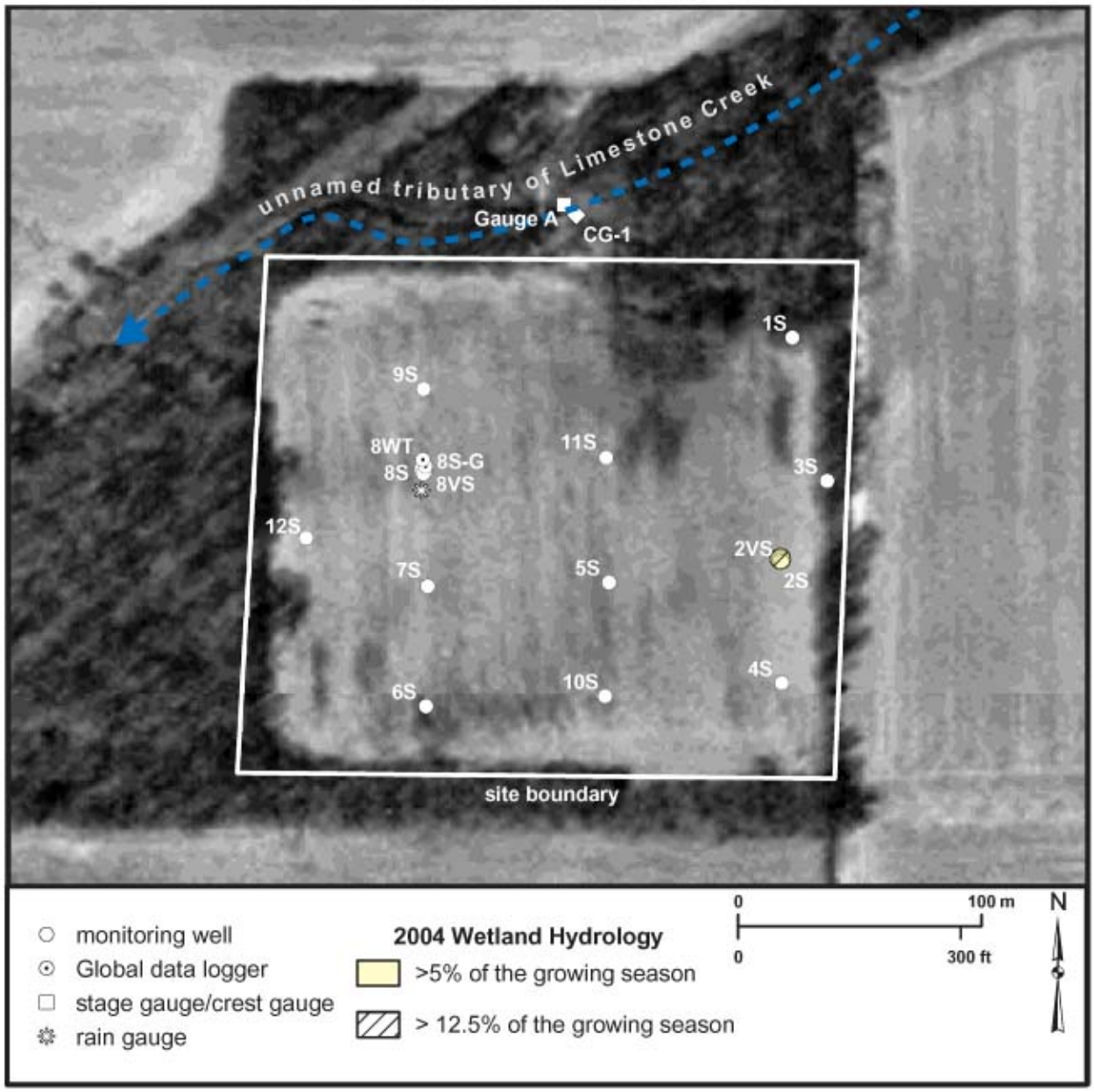
from the USGS Topographic Series, Edgewood, IL 7.5-minute Quadrangle (USGS 1985-provisional)
contour interval is 10 feet



Edgewood Potential Wetland Compensation Site (FAP 328)

Estimated Areal Extent of 2004 Wetland Hydrology

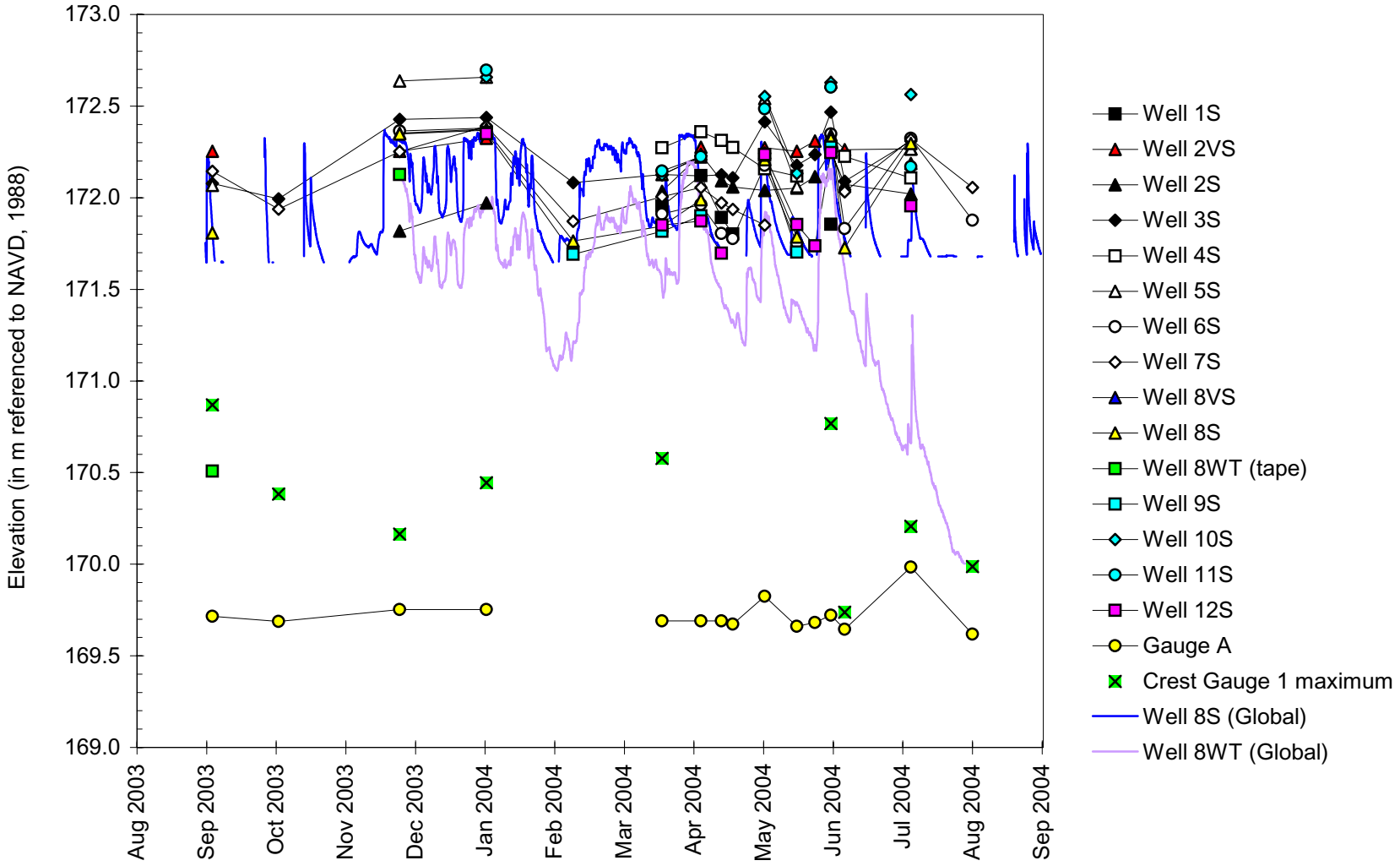
map based on USGS digital orthophotograph, Edgewood NE quarter quadrangle from April 1998 aerial photography (ISGS 2003)



Edgewood Potential Wetland Compensation Site

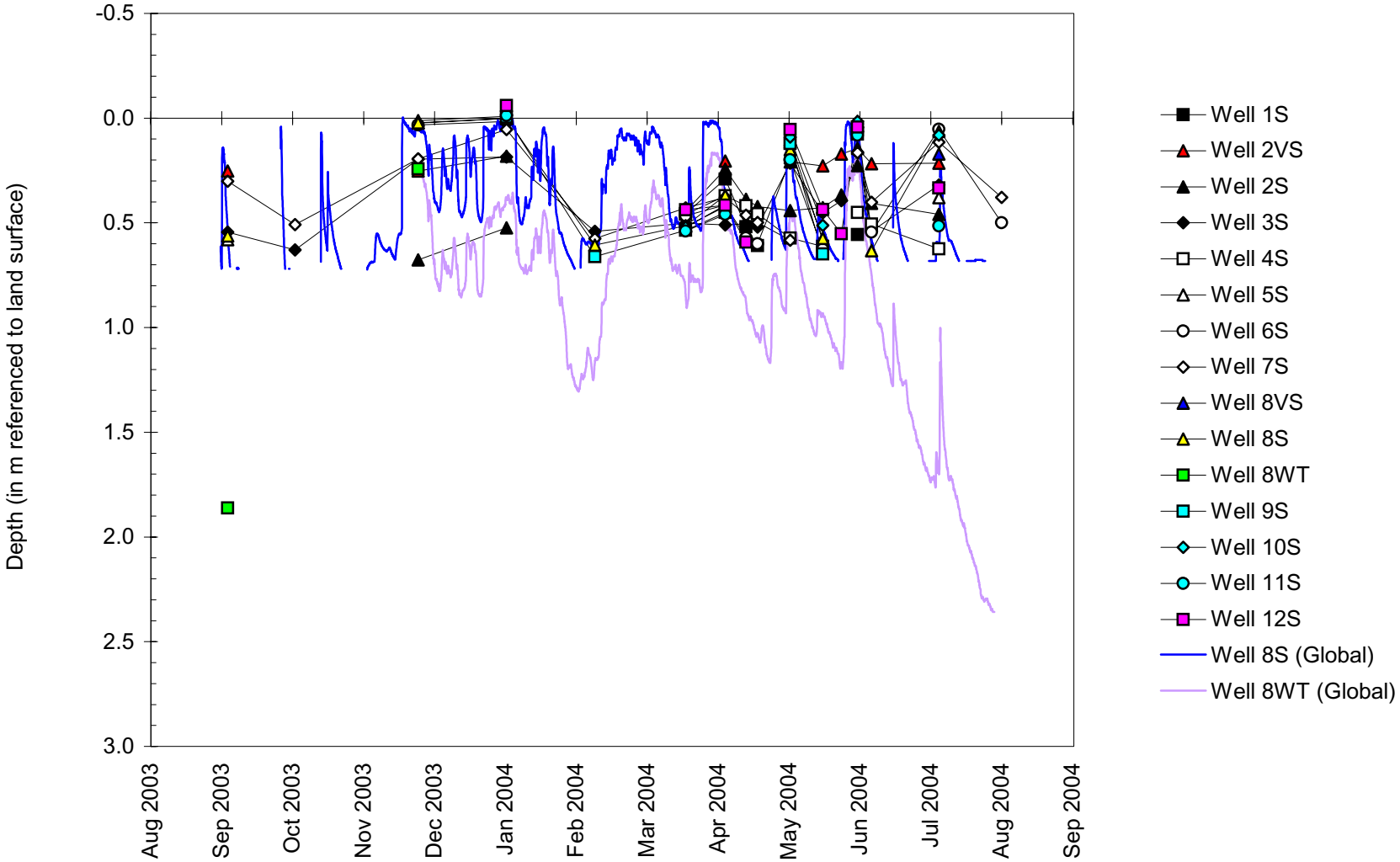
September 1, 2003 to September 1, 2004

Water-Level Elevations
in Monitoring Wells, on the Stage Gauge, and at the Global Data Loggers

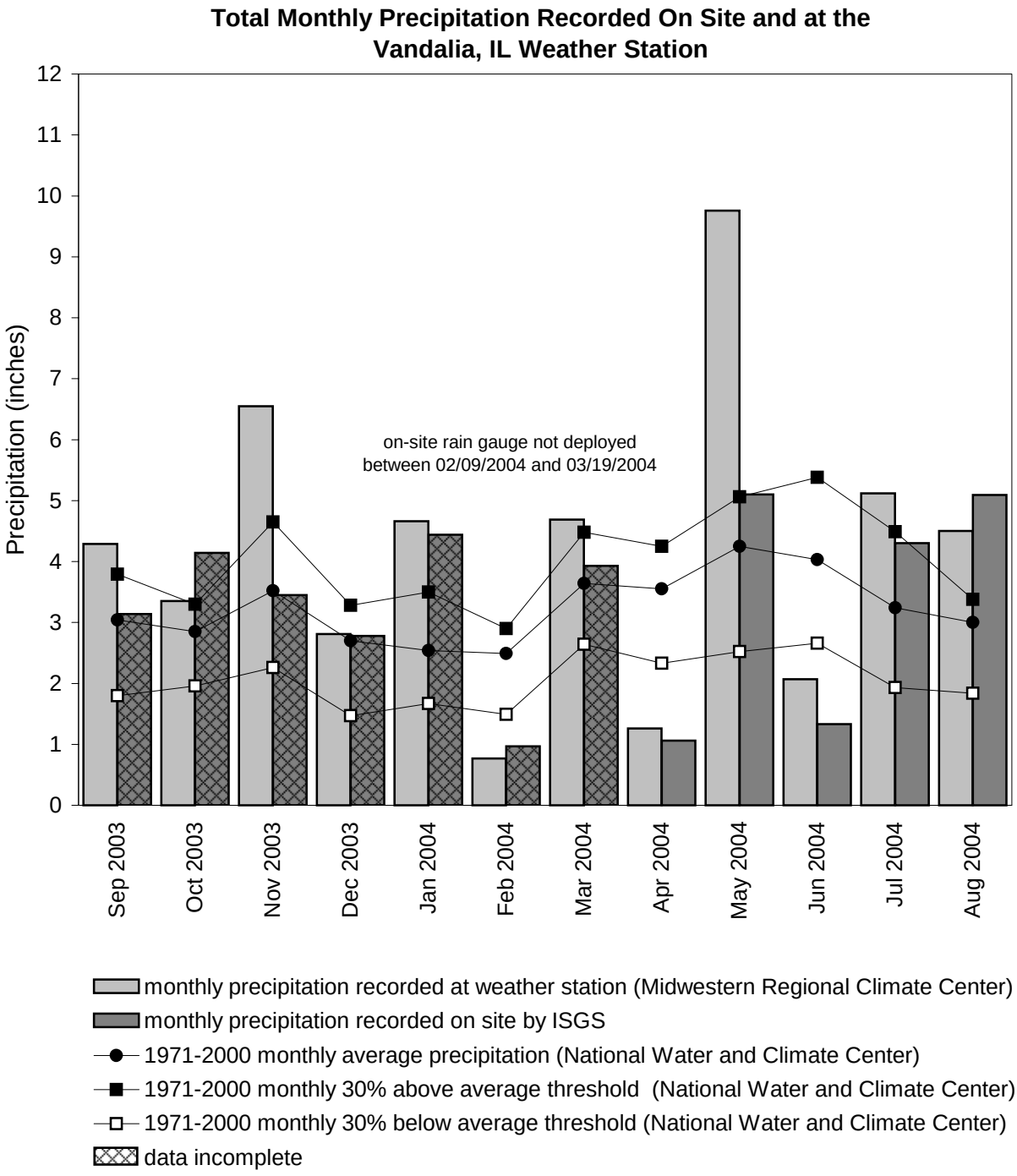


Edgewood Potential Wetland Compensation Site
September 1, 2003 to September 1, 2004

Depth to Water
in Monitoring Wells and at the Global Data Loggers



Edgewood Potential Wetland Compensation Site
September 2003 through August 2004



Graph last updated October 1, 2004